

## **TELECOMMUNICATIONS METHOD AND SYSTEM**

### **ABSTRACT OF THE DISCLOSURE**

A system and method for encoding data for transmission over a telecommunications network. The system and method involve embedding a control data block ( $I_{k0}$ ) within a plurality of real data blocks ( $I_{N0}$ ). Preferably, real data in the real data blocks ( $I_{N0}$ ) is convoluted with at least some of the control data in the control data block ( $I_{k0}$ ). For example, each entry in each real data block ( $I_{N0}$ ) may be phase convoluted with phase angle of the corresponding entry in the control block using an encoding module. Once this is done, the real data in the real data blocks and additionally the control data block in the control block is modulated with every sub carrier.